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ABSTRACT

This volume contains some examples of mathematical applications in sports. Sports discussed include tennis, figure skating, gymnastics, track and field, soccer, skiing, hockey, and swimming. Problems and situations are posed and answers with thorough explanations are provided. Chapters include: (1) Mathematics and Sports; (2) What Is Applied Mathematics?; (3) Why Five Sets? (Mathematical Modeling of Tennis); (4) Those Judges!; (5) Records! Records!; (6) Linear Programming and Sports; (7) Game Models; (8) Organizing Competitions Is an Operations Planning Problem; (9) Classifications in Sports; and (10) Conclusion. (Contains 37 references.) (ASK)

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